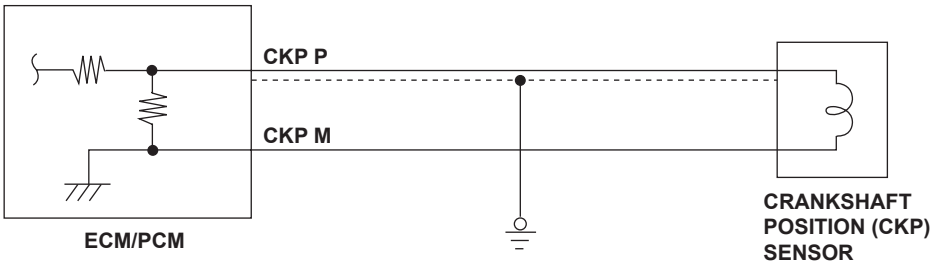
DTC P0336: Crankshaft Position (CKP) Sensor Intermittent Interruption



P0335-9601

General Description

The crankshaft position (CKP) sensor consists of a rotor and a pick-up coil that detect rotor position. When the engine starts, the rotor turns and the magnetic flux in the pick-up coil changes. The changes of magnetic flux are converted into pulsing signals to the engine control module (ECM)/powertrain control module (PCM). The CKP sensor detects injection/ignition timing for each cylinder and the engine speed.
If an abnormal amount of pulsing signals from the CKP sensor is detected, a malfunction is detected and a DTC is stored.

Monitor Execution, Sequence, Duration, DTC Type

Execution	Continuous
Sequence	None
Duration	—
DTC Type	One drive cycle, MIL ON

Enable Conditions

Condition	Minimum	Maximum
Engine speed	500 rpm	—
No active DTCs	CKP, TDC	

Malfunction Threshold

It is counted 30 times that other than six CKP signals are detected for each TDC signal.

Diagnosis Details

Conditions for illuminating the MIL
When a malfunction is detected, the MIL comes on and the DTC and the freeze frame data are stored in the ECM/PCM memory.

Conditions for clearing the MIL
The MIL will be cleared if the malfunction does not recur during three consecutive trips in which the diagnostic runs.
The MIL, the DTC, and the freeze frame data can be cleared by using the scan tool Clear command or by disconnecting the battery.